

MATERIAL SAFETY DATA SHEET

This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200, the EU Directive, 91/155/EEC and other regulatory requirements.

1. Company and Product Identification

Product:	Bioganic Safety Brands™ Weed & Grass Killer (24 Oz. and Gallon sizes) UPC Code: 7900023006 (24 oz.) or 79000230060 (Gal.)	Emergency Telephone Number: InfoTrac Chemical Response System (888) 535-5053 (24 hours)
Manufacturer:	Bioganic Safety Brands, Inc. 318 Seaboard Lane, Suite 202 Franklin, TN 37067	For General Information: (888) 326-SAFE (9am to 5pm EST)

2. Ingredients

<u>Ingredient Name</u>	<u>% by weight</u>	<u>CAS #</u>	<u>Exposure Limits</u>
Eugenol (Clove Oil)	2.0%	97-53-0	None established
Thyme Oil	2.0%	8007-46-3	None established
Sodium Lauryl Sulfate	1.0%	151-21-3	None established
Acetic Acid	10.0%	64-19-7	10 ppm
Other Ingredients	85.0%	None	None established

3. Hazards Identification

Overview:

- White liquid with a vinegar odor.
- Corrosive liquid, avoid contact with product and avoid breathing vapor.

Potential Health Effects: Contact with this product may cause skin irritation and/or eye irritation.
Breathing vapors may cause respiratory irritation.

4. First Aid Measures

Eyes:	Flush with water immediately for at least 15 minutes. Consult physician if irritation persists.
Skin:	Wash exposed area immediately with soap and water. Remove contaminated clothing.
Inhalation:	Move exposed person(s) to fresh air.
Ingestion:	Rinse mouth out with water. Do not induce vomiting. Obtain medical attention.

5. Fire Fighting Measures

Flash Point Not applicable, water based product
Flammable Limits: Not applicable
Extinguishing Media: Carbon Dioxide, Dry Chemical, or Foam
Fire and Explosion Hazards: Non-flammable
Special Fire Fighting Procedures: None
Hazardous Decomposition Products: ..Emits hazardous fumes under fire conditions

6. Spill/Leak Procedures

If spilled, absorb liquid with dry lime, soda ash, or an inert absorbent material for later disposal in accordance with local ordinances.

7. Handling and Storage

Store in a cool, dry place. Do not smoke or eat in the product handling area. Keep out of the reach of children and animals.

8. Exposure Control/Personal Protection

Ventilation: Local exhaust ventilation is not required. If used indoors in a confined space, ensure adequate mechanical ventilation.
Respiratory Protection: Not required with adequate ventilation. If ventilation is poor, wear a properly fitted half-face or full-face air-purifying respirator (NIOSH/MSHA approved).
Eye Protection: Chemical goggles are recommended when applying the product.
Gloves: Wear Neoprene, Nitrile, or natural rubber gloves.
Other Protective equipment: .. Not required.

9. Physical Properties

Appearance: White liquid
Odor: Vinegar-like

Specific Gravity: 1.01

Product Code: Bioganic Safety Brands Weed & Grass Herbicide

Revision #: 3

Date: 07/31/00

10. Stability and Reactivity

Chemical Stability: Reacts with organic and inorganic bases.
Hazardous Polymerization: Will not occur
Conditions/Materials to Avoid (Incompatibility): Amines and hydroxides (alkaline chemicals)

11. Toxicological Information

Rat Acute Oral: LD50 = approximately 3000 mg/kg
Acute effects from Overexposure: This product has low oral and moderate dermal toxicity. Contact with the skin may cause irritation, and contact with the eyes will cause eye irritation. Prolonged inhalation of product vapors may cause irritation of the respiratory tract. Ingestion of this product could cause irritation of the gastrointestinal tract.
Chronic Effects from Overexposure: .. No data are available.
Carcinogenicity: NTP: No OSHA: No

12. Environmental Information

While studies indicate that the active ingredients in this product are less toxic to fish than synthetic pesticides, care should always be taken to prevent herbicides from entering aquifers.

13. Disposal

When container is empty, recycle if available. If recycling is not possible, rinse the container with water and dispose of with ordinary trash.

14. Transportation Information

Proper Shipping Name: Consumer Commodity **DOT Hazard Class:** 8 (Corrosive)

15. Regulatory Information

NFPA Ratings: Health - 1 Fire - 0 Reactivity - 1 Special - corrosive

SARA Title III: This product does not contain any ingredients subject to Section 313 (40 CFR 372) reporting requirements.